

IN THE CLAIMS:

Please cancel Claims 4, 12, 20 and 28 without prejudice or disclaimer of subject matter. Please amend the remaining claims as follows:

1. (Currently Amended) An information processing apparatus for forming print data to be transmitted to a printing apparatus, comprising:

an intermediate data converter for converting data formed by an application to be printed into data in an intermediate code format and for temporarily preserving the intermediate code format data with print setting information including layout information specified via a user interface of a printer driver as one print job in a memory;

a job composer for forming one composed job by composing a plurality of print jobs preserved by the intermediate data converter; and

a preview display controller for obtaining layout information from the intermediate code format data preserved by the intermediate data converter and for controlling display of a preview of the composed job on the basis of the layout information,

wherein said job composer generates job output setting information of the composed job based on the print setting information of the plurality of print jobs to be composed, and wherein the job output setting information maintains page layout of the plurality of print jobs, and

wherein when controlling display of the preview of the composed job, said preview display controller controls, based on the generated job output setting information,

display of a preview indicating that the page layout of the plurality of print jobs is maintained.

2. (Original) An apparatus according to claim 1, further comprising a setting editor for displaying a user interface to edit a print setting of the preserved intermediate code format data and temporarily preserving the print setting edited by said user interface in association with the intermediate code format data,

whercin the layout information is included in said print setting.

3. (Original) An apparatus according to claim 2, wherein said user interface can edit the print setting for the composed job.

4. (Cancelled)

5. (Original) An apparatus according to claim 1, wherein said layout information includes a layout process in said information processing apparatus and a layout process in said printing apparatus.

6. (Original) An apparatus according to claim 1, further comprising a print data forming unit for forming the print data to be transmitted to said printing apparatus on the basis of intermediate data format data preserved by said intermediate data converter.

7. (Original) An apparatus according to claim 6, further comprising:

a draw command forming unit for converting the intermediate data format data preserved by said intermediate data converter into a draw command which can be interpreted by a drawing unit of an as and outputting; and

a print command allocating unit for sending a print command received from the application through the drawing unit of the as to a spooler and sending the print command received from said draw command forming unit through the drawing unit of the as to said print data forming unit.

8. (Original) An apparatus according to claim 7, wherein the draw command is a GDI function, the print command is a DDI function, and the print data is a printer language.

9. (Currently Amended) An information processing method of forming print data to be transmitted to a printing apparatus, comprising:

an intermediate data converting step of converting data formed by an application to be printed into data in an intermediate code format and of temporarily preserving the intermediate code format data with print setting information including layout information specified via a user interface of a printer driver as one print job in a memory;

a job composing step of forming one composed job by composing a plurality of print jobs preserved in said intermediate data converting step; and

a preview display controlling step of obtaining layout information from the intermediate code format data preserved in said intermediate data converting step and of controlling display of a preview of the composed job on the basis of the layout information,

wherein said job composing step generates job output setting information of the composed job based on the print setting information of the plurality of print jobs to be composed, and wherein the job output setting information maintains page layout of the plurality of print jobs, and

wherein said preview display controlling step controls, based on the generated job output setting information, display of a preview indicating that the page layout of the plurality of print jobs is maintained.

10. (Original) A method according to claim 9, further comprising a setting editing step of displaying a user interface to edit a print setting of the preserved intermediate code format data and temporarily preserving the print setting edited by the user interface in association with the intermediate code format data,

wherein the layout information is included in said print setting.

11. (Original) A method according to claim 10, wherein the user interface can edit the print setting for the composed job.

12. (Cancelled)

13. (Original) A method according to claim 9, wherein the layout information includes a layout process in said information processing method and a layout process in said printing apparatus.

14. (Original) A method according to claim 9, further comprising a print data forming step of forming the print data to be transmitted to said printing apparatus on the basis of the intermediate code format data which has temporarily been preserved.

15. (Original) A method according to claim 14, further comprising:  
a draw command forming step of converting the preserved intermediate code format data into a draw command which can be interpreted by a drawing unit of an as and outputting; and

a print command allocating step of sending a print command received from the application through the drawing unit of the as to said intermediate data converting step and sending the print command received from said draw command forming step through the drawing unit of the as to said print data forming step.

16. (Original) A method according to claim 15, wherein the draw command is a GDI function, the print command is a DDI function, and the print data is a printer language.

17. (Currently Amended) A storage medium which stores a computer-readable program for an information processing apparatus for forming print data to be transmitted to a printing apparatus, wherein the program comprises:

an intermediate data converting step of converting data formed by an application to be printed into data in an intermediate code format and of temporarily preserving the intermediate code format data with print setting information including layout information specified via a user interface of a printer driver as one print job in a memory;

a job composing step of forming one composed job by composing a plurality of print jobs preserved in said intermediate data converting step; and

a preview display controlling step of obtaining layout information from the intermediate code format data preserved in said intermediate data converting step and of controlling display of a preview of the composed job on the basis of the layout information,

wherein said job composing step generates job output setting information of the composed job based on the print setting information of the plurality of print jobs to be composed, and wherein the job output setting information maintains page layout of the plurality of print jobs, and

wherein said preview display controlling step controls, based on the generated job output setting information, display of a preview indicating that the page layout of the plurality of print jobs is maintained.

18. (Original) A medium according to claim 17, wherein the program further comprises a setting editing program code for displaying a user interface to edit a print setting of the preserved intermediate code format data and temporarily preserving the print setting edited by the user interface in association with the intermediate code format data,

and wherein the layout information is included in the print setting.

19. (Original) A medium according to claim 18, wherein the user interface can edit the print setting for the composed job.

20. (Cancelled)

21. (Original) A medium according to claim 17, wherein the layout information includes a layout process in said information processing apparatus and a layout process in said printing apparatus.

22. (Original) A medium according to claim 17, wherein the program further comprises a print data forming program code for forming the print data to be transmitted to said printing apparatus on the basis of the preserved intermediate code format data.

23. (Original) A medium according to claim 22, wherein the program further comprises:

a draw command forming program code for converting the preserved intermediate code format data into a draw command which can be interpreted by a drawing unit of an as and outputting; and

a print command allocating program code for sending a print command received from the application through the drawing unit of the as to said intermediate data converting program code and sending the print command received from said draw command forming program code through the drawing unit of the as to said print data forming program code.

24. (Original) A medium according to claim 23, wherein the draw command is a GDI function, the print command is a DDI function, and the print data is a printer language.

25. (Currently Amended) A computer-readable program stored on a computer-readable memory medium for an information processing apparatus for forming print data to be transmitted to a printing apparatus, comprising:

an intermediate data converting step of converting data formed by an application to be printed into data in an intermediate code format and of temporarily preserving the intermediate code format data with print setting information including



layout information specified via a user interface of a printer driver as one print job in a memory;

a job composing step of forming one composed job by composing a plurality of print jobs preserved in said intermediate data converting step; and

a preview display controlling step of obtaining layout information from the intermediate code format data preserved in said intermediate data converting step and of controlling display of a preview of the composed job on the basis of the layout information,

wherein said job composing step generates job output setting information of the composed job based on the print setting information of the plurality of print jobs to be composed, and wherein the job output setting information maintains page layout of the plurality of print jobs, and

wherein said preview display controlling step controls, based on the generated job output setting information, display of a preview indicating that the page layout of the plurality of print jobs is maintained.

26. (Currently Amended) A program stored on a computer-readable memory medium according to claim 25, further comprising a setting editing program code for displaying a user interface to edit a print setting of the preserved intermediate code format data and temporarily preserving the print setting edited by the user interface in association with the intermediate code format data,

wherein the layout information is included in the print setting.

27. (Currently Amended) A program stored on a computer-readable memory medium according to claim 26, wherein the user interface can edit the print setting for the composed job.

28. (Cancelled)

29. (Currently amended) Original) A program stored on a computer-readable memory medium according to claim 25, wherein the layout information includes a layout process in said information processing apparatus and a layout process in said printing apparatus.

30. (Currently Amended) A program stored on a computer-readable memory medium according to claim 25, further comprising a print data forming program code for forming the print data to be transmitted to said printing apparatus on the basis of the preserved intermediate code format data.

31. (Currently Amended) Original) A program stored on a computer-readable memory medium according to claim 30, further comprising:

a draw command forming program code for converting the preserved intermediate code format data into a draw command which can be interpreted by a drawing unit of an OS and outputting; and

a print command allocating program code for sending a print command received from the application through the drawing unit of the as to said intermediate data converting program code and sending the print command received from said draw command forming program code through the drawing unit of the as to said print data forming program code.

32. (Currently Amended) A program stored on a computer-readable memory medium according to claim 31, wherein the draw command is a GDI function, the print command is a DDI function, and the print data is a printer language.